

SCORE Search Results Details for Application 09961086 and Search Result 20080917_142917_us-09-961-086a-1 raphn

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This page gives you Search Results detail for the Application 09961086 and Search Result 20080917_142917_us-09-961-086a-1.rabn

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GenCore version 6.2.1
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OM protein - protein search, using sw model

Run on: September 18, 2008, 22:10:55 ; Search time 14 Seconds
(without alignments)
156.476 Million cell updates/sec

Title: US-09-961-086A-1

Perfect score: 3352

Sequence: 1 MSSSNVEVETPVSGQNTNCE MIVIETLIAYLKLLFELKKYS 655

Scoring table: BLOSUM62

Gapop 10.0 - Gapext 0.5

Searched: 18219 segs. 3344526 residues

Total number of hits satisfying chosen parameters: 18219

Minimum DB seg length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_New:*
1: /ABSS/Data/CRF/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
2: /ABSS/Data/CRF/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
3: /ABSS/Data/CRF/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
4: /ABSS/Data/CRF/ptodata/1/pubpaa/US12_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Results

No.	Score	Match Length	DB	ID	Description
1	227.5	6.8	294	3 US-11-524-363-3579	Sequence 3579, Ap
2	227.5	6.8	294	3 US-11-801-901A-3579	Sequence 3579, Ap
3	221.5	6.6	252	3 US-11-524-363-5117	Sequence 5117, Ap
4	221.5	6.6	252	3 US-11-801-901A-5117	Sequence 5117, Ap
5	221	6.6	233	3 US-11-524-363-2753	Sequence 2753, Ap
6	221	6.6	233	3 US-11-801-901A-2753	Sequence 2753, Ap
7	206.5	6.2	378	3 US-11-524-363-3524	Sequence 3524, Ap
8	206.5	6.2	378	3 US-11-801-901A-3524	Sequence 3524, Ap
9	204.5	6.1	209	3 US-11-524-363-3396	Sequence 3396, Ap
10	204.5	6.1	209	3 US-11-801-901A-3396	Sequence 3396, Ap
11	203.5	6.1	242	3 US-11-524-363-2985	Sequence 2985, Ap
12	203.5	6.1	242	3 US-11-801-901A-2985	Sequence 2985, Ap
13	203	6.1	336	3 US-11-524-363-3027	Sequence 3027, Ap
14	203	6.1	336	3 US-11-801-901A-3027	Sequence 3027, Ap
15	201.5	6.0	215	3 US-11-524-363-2846	Sequence 2846, Ap
16	201.5	6.0	215	3 US-11-801-901A-2846	Sequence 2846, Ap
17	199	5.9	353	3 US-11-524-363-4827	Sequence 4827, Ap
18	199	5.9	353	3 US-11-801-901A-4827	Sequence 4827, Ap
19	196.5	5.9	297	3 US-11-524-363-3131	Sequence 3131, Ap
20	196.5	5.9	297	3 US-11-801-901A-3131	Sequence 3131, Ap
21	195.5	5.8	244	3 US-11-524-363-2710	Sequence 2710, Ap
22	195.5	5.8	244	3 US-11-801-901A-2710	Sequence 2710, Ap
23	195	5.8	1325	3 US-11-596-106A-12	Sequence 12, Appl
24	192.5	5.7	623	3 US-11-524-363-3324	Sequence 3324, Ap
25	192.5	5.7	623	3 US-11-801-901A-3324	Sequence 3324, Ap
26	192	5.7	236	3 US-11-524-363-3215	Sequence 3215, Ap
27	192	5.7	236	3 US-11-801-901A-3215	Sequence 3215, Ap
28	191.5	5.7	213	3 US-11-524-363-3603	Sequence 3603, Ap
29	191.5	5.7	213	3 US-11-801-901A-3603	Sequence 3603, Ap
30	191	5.7	581	3 US-11-524-363-3011	Sequence 3011, Ap
31	191	5.7	581	3 US-11-801-901A-3011	Sequence 3011, Ap
32	190.5	5.7	246	3 US-11-524-363-4464	Sequence 4464, Ap
33	190.5	5.7	246	3 US-11-801-901A-4464	Sequence 4464, Ap
34	188.5	5.6	317	3 US-11-524-363-4111	Sequence 4111, Ap
35	188.5	5.6	317	3 US-11-801-901A-4111	Sequence 4111, Ap
36	188	5.6	511	3 US-11-524-363-2684	Sequence 2684, Ap
37	188	5.6	511	3 US-11-801-901A-2684	Sequence 2684, Ap
38	184.5	5.5	246	3 US-11-524-363-4567	Sequence 4567, Ap
39	184.5	5.5	246	3 US-11-801-901A-4567	Sequence 4567, Ap
40	182.5	5.4	461	3 US-11-524-363-2826	Sequence 2826, Ap
41	182.5	5.4	461	3 US-11-801-901A-2826	Sequence 2826, Ap
42	182	5.4	264	3 US-11-524-363-3729	Sequence 3729, Ap
43	182	5.4	264	3 US-11-801-901A-3729	Sequence 3729, Ap
44	181.5	5.4	213	3 US-11-524-363-4973	Sequence 4973, Ap
45	181.5	5.4	213	3 US-11-801-901A-4973	Sequence 4973, Ap

ALIGNMENTS

RESULT 1

US-11-524-363-3579

; Sequence 3579, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Housewaert, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 3579
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US 11/524,363 3579

Query Match 6.8%; Score 227.5; DB 3; Length 294;
Best Local Similarity 25.2%; Pred. No. 6.8e-11;
Matches 83; Conservative 54; Mismatches 105; Indels 87; Gaps 11;

Qy 56 RKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLVDLAARKDPSGLSGDVLINGAP-R 113
::| : ::||| ||: : | | : |||: | ||::||| | | | ||| | | |

Qy 114 PANFKCNSGYVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKV 173
 : | : ::::: | : | : | : | : | : | : | : |
 Ph 69 SSKSLDYTRAVLPOENILYOKI KIKUELFIAEFDI YDNPLSNEGLDOLLOWKOOK 122

Qy 174 ADSKVGQTQFIRGVSGGERKRTSIGMELITDPSILFLDPEPTGGLDSSTANAVLLLKRMSK 233
| :||::: | : || | :|||| | ::|| :: :
Db 123 -----EOLAELKLSGGOKRLFSILTLLIGRKPVKFLDEPTASMDTSTRORFWEIVOELKA 176

QY 234 QGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADF 293
|| | :| :| :| :| :| :| :| :| :|
Db 177 OGVTILLYSSHYTE-EVEHTADRLIJLNKGELI----- 207

Qy 294 FLIDIINGDSTAVALNREEDFK-----ATEIIEPS-----KQDKPLIE----- 330
| :| :| :| | | | | :| | | | | | | |

Db 208 -----RDTTPLAMRSEEIEKHFILPIAYKEVVEQSNLVENWTLKQDSLQVVREADAFW 261
 Qy 331 -----KLAEIYVN----SSFYKETK 346
 :: || || :: ::||:
 Db 262 ELLAQAGCRMQEIEVNNRSLLNTIFEETQ 290

RESULT 2
 US-11-801-901A-3579
 ; Sequence 3579, Application US/11801901A
 ; Publication No. US20080194505A1
 ; GENERAL INFORMATION
 ; APPLICANT: Doucette-Stamm, Lynn
 ; APPLICANT: Bush, David
 ; APPLICANT: Zeng, Qiandong
 ; APPLICANT: Opperman, Timothy
 ; APPLICANT: Housewaert, Chad Eric
 ; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
 ; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
 ; FILE REFERENCE: 3687.1000-060
 ; CURRENT APPLICATION NUMBER: US/11/801,901A
 ; CURRENT FILING DATE: 2008-04-17
 ; PRIOR APPLICATION NUMBER: US 11/524,355
 ; PRIOR FILING DATE: 2006-09-20
 ; PRIOR APPLICATION NUMBER: US 11/027,892
 ; PRIOR FILING DATE: 2004-12-30
 ; PRIOR APPLICATION NUMBER: US 10/640,833
 ; PRIOR FILING DATE: 2003-08-14
 ; PRIOR APPLICATION NUMBER: US 09/583,110
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/107,433
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/085,131
 ; PRIOR FILING DATE: 1998-05-12
 ; PRIOR APPLICATION NUMBER: US 60/051,553
 ; PRIOR FILING DATE: 1997-07-02
 ; NUMBER OF SEQ ID NOS: 5326
 ; SEQ ID NO 3579
 ; LENGTH: 294
 ; TYPE: PRT
 ; ORGANISM: Streptococcus pneumoniae
 US-11-801-901A-3579

Query Match 6.8%; Score 227.5; DB 3; Length 294;
 Best Local Similarity 25.2%; Pred. No. 6.8e-11;
 Matches 83; Conservative 54; Mismatches 105; Indels 87; Gaps 11;

Qy 56 RKPVEKEILSNINGIMKG-P-LNAILGPTGGGKSSLVDLAARKDPSGLSGDVILINGAP-R 113
 :| :|||| ||: : | |::|| | ||::|| | | | || | || | | | |
 Db 11 KKIKDKEILRNISFEINDGECVALIGPNGAGKTLLDCCLLG--DKLVTSGQVSIQGLPVT 68
 Qy 114 PANFKCNSGYVQDDVVMTLTVRENLFQSAALRLATTMTNHEKNERINRVIQEGLDKV 173
 : | : |:::| | |::| : | : | | | | | : | |:::| : | |
 Db 69 SSKLDYTRAYLPQENIIVQKLKVKELIAFFQRI----YPNPLSNQEIDQLLQFVKQQK- 122

Qy	174 ADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRM SK 233
	: ::: : : : :::: :
Db	123 -----EQLAEKLSSGGQKRLFSILTIGRPKIVFLDEPTASMDTSTRQRFWEIFVQELKA 176
Qy	234 QGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQEALGYFESAGYHCEAYNNPA DF 293
	::: : : :
Db	177 QGVТИLYSSHYIE-EVEHTADRILLLNKGELI----- 207
Qy	294 FLDIINGDSTAVALNREEDFK-----ATEIIEPS-----KQDKPLIE----- 330
	: : : : :
Db	208 -----RDTTPLAMRSEEIEKHFIPLIAVKVVEQSNLVENWTLKQDSLQVVTR EADAFW 261
Qy	331 -----KLAEIYVN-----SSFYKETK 346
	:: : : :: :
Db	262 ELLAQAGCRMQEIEVNNRSLLNTIFEETQ 290

RESULT 3

US-11-524-363-5117
; Sequence 5117, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Housewkaert, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 5117
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-5117

Query Match 6.6%; Score 221.5; DB 3; Length 252;
Best Local Similarity 26.2%; Pred. No. 1.6e-10;

Matches	63;	Conservative	56;	Mismatches	68;	Indels	53;	Gaps	8;
Qy	62 EILSNINGIMKPG-LNAILGPTGGGKSSLVDVLAARKDPSGLSGDVILINGAPRPA--NFK 118 :::: :: :: : :: :: : :								
Db	23 EALKDIHFTVEKGDYVAIMGESGSGKSTLLNILAMLDKPS--RGQVYLNGBTATIKNSQ 80								
Qy	119 CNS-----GYVVQDDVMGTLTVRENLQFSAALRLATTMTNEKNERINRVI--QELG 169 : :: :: ::: : :: : :: :								
Db	81 ASSFRREKLGFVFQDFNLDDTLSVKDN----ILLPLVLSRRPITEMMMKKLVVTAENLG 134								
Qy	170 LDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLK 229 :::: : :: :: :: : : :: : :								
Db	135 INQLQE----KYPYEISGGQKQRVAVARAIITEPEILLADEPTHGALDSKSSAALLDVF 189								
Qy	230 RMSKQGRTIIFSIHQ-----PRYSIFKLFDSTLLAS 261 ::::: :: : : : :								
Db	190 EINERGQTILMVTHSTAAASRAKRVLFIKDGILYNQIYRGEKTERQMFQEISDTLTVMAS 249								

RESULT 4

US-11-801-901A-5117
; Sequence 5117, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 5117
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-5117

RESULT 5

US-11-524-363-2753
; Sequence 2753, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Housewaert, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 2753
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae

US-11-524-363-2753

Query Match 6.6%; Score 221; DB 3; Length 233;
 Best Local Similarity 29.8%; Pred. No. 1.6e-10;
 Matches 64; Conservative 44; Mismatches 87; Indels 20; Gaps 7;

Qy 46 VKLKGFLPCRK-PVEKEILSNINGIMKPG-LNAILGPTGGGKSSLVDVLAARKDPSGLS 103
 : ||: | | | | ::| ||| : | ||::|:|||:::| : | |
 Db 5 ISLKNIFRSYRNGDQELQVLKNINLEVNEGEFVAIMPMSGKSTLMNTIGMLDTPT--S 62

Qy 104 GDVLIN-----GAPRPANFKCNS-GYVVQDDVMGTLTVRENQFSAA RLATTMTNH 155
 |: : | : | : | :||| : | :|:|: | | :|:
 Db 63 GEYYLEGQEAVAGLEKQLAKVRNQQIGFVFQQFFLLSKLNALQNVE---LPLIYAGVSS 118

Qy 156 EKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTG 215
 | | : | | ||| :| :| |::| :| | :| |:|:| |:
 Db 119 SK---RRKLAEEYLDKVELTERSHELLPSELGGQKQRVAIARALVNNPSIILA DEPTGA 174

Qy 216 LDSSTANAVLLLKRMSKQGRTIIFSIIHQPRYSIF 250
 ||: | | ::| | :| |::|:| | | | :| :|:
 Db 175 LDTKTGNQIMQLLVDLNKEGKTIIMVTHEPEIAAY 209

RESULT 6

US-11-801-901A-2753
 ; Sequence 2753, Application US/11801901A
 ; Publication No. US20080194505A1
 ; GENERAL INFORMATION
 ; APPLICANT: Doucette-Stamm, Lynn
 ; APPLICANT: Bush, David
 ; APPLICANT: Zeng, Qiandong
 ; APPLICANT: Opperman, Timothy
 ; APPLICANT: Housewart, Chad Eric
 ; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
 ; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
 ; FILE REFERENCE: 3687.1000-060
 ; CURRENT APPLICATION NUMBER: US/11/801,901A
 ; CURRENT FILING DATE: 2008-04-17
 ; PRIOR APPLICATION NUMBER: US 11/524,355
 ; PRIOR FILING DATE: 2006-09-20
 ; PRIOR APPLICATION NUMBER: US 11/027,892
 ; PRIOR FILING DATE: 2004-12-30
 ; PRIOR APPLICATION NUMBER: US 10/640,833
 ; PRIOR FILING DATE: 2003-08-14
 ; PRIOR APPLICATION NUMBER: US 09/583,110
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/107,433
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/085,131
 ; PRIOR FILING DATE: 1998-05-12
 ; PRIOR APPLICATION NUMBER: US 60/051,553
 ; PRIOR FILING DATE: 1997-07-02
 ; NUMBER OF SEQ ID NOS: 5326
 ; SEQ ID NO 2753

; LENGTH: 233
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-2753

Query Match 6.6%; Score 221; DB 3; Length 233;
Best Local Similarity 29.8%; Fred. No. 1.6e-10;
Matches 64; Conservative 44; Mismatches 87; Indels 20; Gaps 7;

Qy 46 VKLKGFLPCRK-PVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVAARKDPSGLS 103
: ||: | | | | :| :|| :| ||::||:||:||:||:| :| |
Db 5 ISLKNIFRSYRNGDQELQVLKNINLEVNEGEFVAIMGPSGSGKSTLMNTIGMLDTPT--S 62

Qy 104 GDVLIN-----GAPRPANFKCNS-GYVVQDDVMGTLTVRENLQFSAA RLATTMTNH 155
|: : | : | : | :|| | :: | :||:| | | :|:
Db 63 GEYYLEGQEVALGEKQLAKVRNQQIGFVFQQFFLLSKLNALQNVE---LPLIYAGVSS 118

Qy 156 EKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRRTSIGMELITDPSIILFDEPTTG 215
| | | : | ||| :: :||::| :| | :||:| :|||
Db 119 SK---RRKLAEEYLDKVLTTERS HHLPS ELGGQKQRVAIARALVNNPSIILA DEPTGA 174

Qy 216 LDSSTANAVLLL KRM SKQGR TIIFS IHQPRYSIF 250
||: | | :: || :||:||:|| | :| :|:
Db 175 LDTKTGNQIMQLLV DNLKEGKTIIMVTHEPEIAAY 209

RESULT 7

US-11-524-363-3524

; Sequence 3524, Application US/11524363

; Publication No. US20080194004A1

; GENERAL INFORMATION:

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-032

; CURRENT APPLICATION NUMBER: US/11/524,363

; CURRENT FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5324

; SEQ ID NO 3524
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3524

Query Match 6.2%; Score 206.5; DB 3; Length 378;
Best Local Similarity 22.2%; Pred. No. 3.9e-09;
Matches 76; Conservative 79; Mismatches 141; Indels 47; Gaps 13;

Qy 62 EILSNINGIMPKG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVILINGA---PRPANF 117
::| :|| ::| :|| :|| :|| ||::|::| | : :||::| | |
Db 21 KVLKDINFELEEGKFYTLGGASGSGKSTILNIIAGLLDAT--TGDIMLDGVRINDIPTN- 77

Qy 118 KCNSGYVVQDDVVMGTLTVRENQFSaalRLATTMTNHEKNERINRVIQELGLDKVADSK 177
| : | | : : | ||: | || :: : ::| | : |
Db 78 KRDVHTVFQSYALFPHMNVFENVAFLPLRLRKIDKKEIEQRVAEVLMKVQLEGYEK---- 132

Qy 178 VGTQFIRGVSGGERKRSTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSQ-GR 236
: || ::||:|| :| :| | :: ||| : || : | : :: |
Db 133 ---RSIRKLSSGGQRQRVAIARAIINQPRVVLDEPLSALDLKLRTDMQYELRELQQRLGI 189

Qy 237 TIIFSIHQPRYSIFKLFDSLTLLASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLD 296
| :| | | :: :| : :: | :: | :: | : | :| :|:
Db 190 TFVFVTHDQEEAL-AMSDWIFVMNDGEIV-----QSGTPVDIYDEPINHFVA 235

Qy 297 IINGDSTAVALNREEDF----KATEIIEPS-KQDKPLIEKLAIEIYVNSSFYKETKAEL 349
| :| : : ||: | | | :: | :| : | :| : | | |
Db 236 TFIGESNILPGSMIEDYLVEFNGKRFEAVIDGGMKPNEPV----EVVIRPEDLRITLPEE 290

Qy 350 HQLSGGEKKKIKITVFKEISYTTSFCHQL--RWVSKRSPFKNLLG 390
:| :| | ::| :| | ::| :| :| :| :| :|:
Db 291 GKL---QVKVDTQLFRGVHYEIIAYDELGNEMIHSRKAIVG 330

RESULT 8

US-11-801-901A-3524

; Sequence 3524, Application US/11801901A

; Publication No. US20080194505A1

; GENERAL INFORMATION

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-060

; CURRENT APPLICATION NUMBER: US/11/801,901A

; CURRENT FILING DATE: 2008-04-17

; PRIOR APPLICATION NUMBER: US 11/524,355

; PRIOR FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833
 ; PRIOR FILING DATE: 2003-08-14
 ; PRIOR APPLICATION NUMBER: US 09/583,110
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/107,433
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/085,131
 ; PRIOR FILING DATE: 1998-05-12
 ; PRIOR APPLICATION NUMBER: US 60/051,553
 ; PRIOR FILING DATE: 1997-07-02
 ; NUMBER OF SEQ ID NOS: 5326
 ; SEQ ID NO 3524
 ; LENGTH: 378
 ; TYPE: PRT
 ; ORGANISM: Streptococcus pneumoniae
 US-11-801-901A-3524

Query Match 6.2%; Score 206.5; DB 3; Length 378;
 Best Local Similarity 22.2%; Pred. No. 3.9e-09;
 Matches 76; Conservative 79; Mismatches 141; Indels 47; Gaps 13;

Qy	62 EILSNINGIMKPG-LNAILGPTGGGKSSLVDLAARKDPSGLSGDVLINGA---PRPANF	117
	:: : :: : : :: :: : : :::	
Db	21 KVLKDINFELEEGKFYTLGGASGSGKSTILNIIAGLLDAT--TGDIMLDGVRIINDIPTN-	77
Qy	118 KCNSGYVQDDVVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSK	177
	: : : : :: : : :: :	
Db	78 KRDVHTVFQSAYLPHMNVFENAVFPLRLRKIDKKEIEQRVAEVLKVMVQLEGYEK----	132
Qy	178 VGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRM SKQ-GR	236
	: :: : : : : :: : : :	
Db	133 ---RSIRKLSSGQRQRVAIARAINQPRVVLNDEPLSALDLKLRTDMQYELRELQQRLGI	189
Qy	237 TIIFSIHQPRYSIFKLFDSLTLIASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLD	296
	: :: : : : : : : : : :	
Db	190 TFVFVTHDQEEAL-AMSDWIFVMNDGEIV-----QSGTPVDIYDEPINHFVA	235
Qy	297 IINGDSTAVALNREEDF----KATEIIEPS-KQDKPLIEKLAEIYVNSSFYKETKAEL	349
	: : : : : : : : : :	
Db	236 TFIGESNILPGSMIEDYLVEFNGKRFEAVDGGMKPNEPV----EVVIRPEDLRITLPEE	290
Qy	350 HQLSGGEKKKIKTVFKEISYTTSFCHQL--RWVSKRSFKNLLG 390	
	: : : : : : : : : : :	
Db	291 GKL---QVKVDTQLFRGVHYEIIAYDELGNEWMIHSTRKAIVG 330	

RESULT 9

US-11-524-363-3396
 ; Sequence 3396, Application US/11524363
 ; Publication No. US20080194004A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Doucette-Stamm, Lynn
 ; APPLICANT: Bush, David
 ; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy
; APPLICANT: Housewaert, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 3396
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3396

RESULT 10

US-11-801-901A-3396
; Sequence 3396, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; ATTORNEY: Bush, David

; APPLICANT:Zeng, Qiandong
 ; APPLICANT:Opperman, Timothy
 ; APPLICANT:Houseweart, Chad Eric
 ; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
 ; TITLE OF INVENTION:Pneumoniae for Diagnostics and Therapeutics
 ; FILE REFERENCE: 3687.1000-060
 ; CURRENT APPLICATION NUMBER: US/11/801,901A
 ; CURRENT FILING DATE: 2008-04-17
 ; PRIOR APPLICATION NUMBER: US 11/524,355
 ; PRIOR FILING DATE: 2006-09-20
 ; PRIOR APPLICATION NUMBER: US 11/027,892
 ; PRIOR FILING DATE: 2004-12-30
 ; PRIOR APPLICATION NUMBER: US 10/640,833
 ; PRIOR FILING DATE: 2003-08-14
 ; PRIOR APPLICATION NUMBER: US 09/583,110
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/107,433
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/085,131
 ; PRIOR FILING DATE: 1998-05-12
 ; PRIOR APPLICATION NUMBER: US 60/051,553
 ; PRIOR FILING DATE: 1997-07-02
 ; NUMBER OF SEQ ID NOS: 5326
 ; SEQ ID NO 3396
 ; LENGTH: 209
 ; TYPE: PRT
 ; ORGANISM: Streptococcus pneumoniae
 US-11-801-901A-3396

Query Match 6.1%; Score 204.5; DB 3; Length 209;
 Best Local Similarity 31.5%; Pred. No. 2.5e-09;
 Matches 62; Conservative 42; Mismatches 72; Indels 21; Gaps 7;

Qy	60 EKEILSNIN-GIMKPGLNAILGPTGGGKSSLLDVLAAARKDPQL---SGDVILINGAPRP 114
	: : : : : : : : :
Db	13 DKQILSNFSLSIPEKQILAIVGPSGGKTLLRMLA-----GLETIDSGQIFYNGQPLE 66
Qy	115 AN--FKCN-SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTHEKNERINRVIQELGLD 171
	: : : : : :: : :::: :
Db	67 LDELQKRNLGGFVQDFQLFPFLHSLVLENLTSPVKTMG--MKQEEAEKKASGLLEQLGLG 124
Qy	172 KVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRM 231
	:: : : :: :: : : : : :
Db	125 GHAEA----YPFSLSGGQKQRVALARAMMIDPEIIGYDEPTSALDPELRLEVKEKLILQN 179
Qy	232 SKQGRTIIFSIHQPRYS 248
	: :::
Db	180 RELGMTQIVVTHDLQFA 196

RESULT 11
 US-11-524-363-2985
 ; Sequence 2985, Application US/11524363

; Publication No. US20080194004A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Doucette-Stamm, Lynn
 ; APPLICANT: Bush, David
 ; APPLICANT: Zeng, Qiandong
 ; APPLICANT: Opperman, Timothy
 ; APPLICANT: Houseweart, Chad Eric
 ; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
 ; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
 ; FILE REFERENCE: 3687.1000-032
 ; CURRENT APPLICATION NUMBER: US/11/524,363
 ; CURRENT FILING DATE: 2006-09-20
 ; PRIOR APPLICATION NUMBER: US 11/027,892
 ; PRIOR FILING DATE: 2004-12-30
 ; PRIOR APPLICATION NUMBER: US 10/640,833
 ; PRIOR FILING DATE: 2003-08-14
 ; PRIOR APPLICATION NUMBER: US 09/583,110
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/107,433
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/085,131
 ; PRIOR FILING DATE: 1998-05-12
 ; PRIOR APPLICATION NUMBER: US 60/051,553
 ; PRIOR FILING DATE: 1997-07-02
 ; NUMBER OF SEQ ID NOS: 5324
 ; SEQ ID NO 2985
 ; LENGTH: 242
 ; TYPE: PRT
 ; ORGANISM: Streptococcus pneumoniae
 US-11-524-363-2985

Query Match 6.1%; Score 203.5; DB 3; Length 242;
 Best Local Similarity 24.9%; Pred. No. 3.6e-09;
 Matches 70; Conservative 54; Mismatches 98; Indels 59; Gaps 12;

Qy 36 VLSFHNICYRVKLKGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLVDVLA 94
 :: : | : | ||::| ::| : | :||:| ||::| ::|
 Db 1 MIEYKNVALRY-----TEKDVLRDVNQLQIEDGEFVMVLVGPSGSKGTTMLKMIN 48

Qy 95 ARKDPSGLSGDVLINGAP---RPANFKCNNSGYVVQDDVVMTLTVRENLQFSAALRLAT 150
 :| :| ::| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
 Db 49 RLLEPT---DGNIYMDGKRIKDYDERELRLSTGYVLQAIALFPNLTVVAEN----IALIP 100

Qy 151 TMTNHEKNERINRVIQELGLDKVA--DSKVGTQFIRGVSGGERKRKTSIGMELITDPSILF 208
 | | | | :| :| | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
 Db 101 EMKGWSK-EEITKKTEEL-LAKVGLPVAEYGHRLPSELSGGEQQRGIVRAMIQPKILL 158

Qy 209 LDEPTTGLDSSTANAVLLLLKRMSKQ-GRTIIFSIHQPRYSIFKLFDSLTLLASGRMFH 267
 :| | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
 Db 159 MDEPFSALDAISRKQLQVLTKELHKEFGMTTIFVTHTDEAL-KLADRIAVLQDGEI--- 214

Qy 268 GPAQEALGYFESAGYHCEAYNNP-----ADFFLDIING 300
 :| | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
 Db 215 -----RQVSNPETILKAPATDFVADLFGG 238

RESULT 12
US-11-801-901A-2985
; Sequence 2985, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Housewaert, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 2985
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-2985

Query Match 6.1%; Score 203.5; DB 3; Length 242;
Best Local Similarity 24.9%; Pred. No. 3.6e-09;
Matches 70; Conservative 54; Mismatches 98; Indels 59; Gaps 12;

Qy	36 VLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSLLDVLA	94
	:: : : :: :: : :: : :: :: :	
Db	1 MIEYKNVALRY-----TEKDVLRDVNLQIEDGEFMVLVGPSGSGKTTMLKMIN	48
Qy	95 ARKDPGSLGSDVLINGAP---R PANFKCNCGYVVQDDVVMGTLTVRENLFQFSAA RLAT	150
	:: : : :: : : : : : :	
Db	49 RLLEPT--DGNIYMDGKRIKYDERE RLSTGYVLQAI ALFPNLTVAEN---- IALIP	100
Qy	151 TMTNHEKNERINRVIQELGLDKVA--DSKVGTQFIRGVSGGERKRTSIGMELITDPSILF	208
	: : :: : : : : : : :	
Db	101 EMKGWSK-EEITKKTEEL-LAKVGLPVAEYGHRLPSEL SGGEQQRVGIVRAMIGQPKILL	158

Qy	209 LDEPTTGLDSSTANAVLLLKRMSKQ-GRTIIFSIHQPRYSIFKLFDSLTLASGRLMFH 267 : : : : : : : : :
Db	159 MDEPFSALDAISRKQLQVLTKEHKEFGMTTIFVTHDTDEAL-KLADRIAVLQDGEI--- 214
Qy	268 GPAQEALGYFESAGYHCEAYNNP-----ADFFLDIING 300 : :
Db	215 -----RQVSNPETILKAPATDFVADLFGG 238

RESULT 13

US-11-524-363-3027

; Sequence 3027, Application US/11524363

; Publication No. US20080194004A1

; GENERAL INFORMATION:

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687,1000-032

; CURRENT APPLICATION NUMBER: US/11/524,363

; CURRENT FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5324

; SEQ ID NO 3027

; LENGTH: 336

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-11-524-363-3027

Query Match 6.1%; Score 203; DB 3; Length 336;

Best Local Similarity 26.4%; Pred. No. 6.1e-09;

Matches 94; Conservative 63; Mismatches 139; Indels 60; Gaps 20;

Qy	64 LSNIN-GIMPKGLNAILGPTGGKSSLVDLAAARKDPGSLGSDGVLINGAP---RPANFK 118 : : : : : :
Db	17 IDNLNLNDIHEGEFTFLGPSPCGKSTTLRALVGFLDPS--SGSIEVNGTDVTLEPE--K 72

Qy	119 CNSGYVVQDDVMGTLTVRENLNQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV 178 : : : : : : : : : :
Db	73 RGIGIVFQSIALFPTMTVFDNIAFGLKVKKVAPDVIK---VSABAAKI---KISDQQL 126

Qy 179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSKQ-GRT 237
 : : : |||:::| :: :| :|| ||| :||: :||| :|:|||
 Db 127 -QRNVSELSGGQQQRVALARALVLEPKILCLDEPLSNLDAKLRLVDRKELKRLQKELGIT 185

Qy 238 IIFSIHQPRYSIFKLFDSLTLASGRL-MFHGPAQEALGYFESAGYHCEAYNNP----A 291
 :: | :||| | :|:||:| ||| | | :|||
 Db 186 TLYVTHDQE-----EATL--SDRIAVFNN-----GYIEQVGTGPVEIYHNSQTEFVC 230

Qy 292 DFFLDI-INGDSTAVALNREDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELH 350
 || | :| | | | :| :|:||:| :||| :| :|||:
 Db 231 DFFIGDINVLTDETV---HEVLLKNTSVFLEDKKGYIRLEKV-----RFNRETEQDF- 278

Qy 351 QLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNL LG-NPQASIAQIIVTVVL 405
 | | | :|:||:||:| :|:||:| :|:||:| :|:
 Db 279 ILKG-----TII-DVEFGVTIHYTICKVSESQILNVTSIDSQAAIRSGESVEL 326

RESULT 14

US-11-801-901A-3027

; Sequence 3027, Application US/11801901A

; Publication No. US20080194505A1

; GENERAL INFORMATION

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Housewaert, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-060

; CURRENT APPLICATION NUMBER: US/11/801,901A

; CURRENT FILING DATE: 2008-04-17

; PRIOR APPLICATION NUMBER: US 11/524,355

; PRIOR FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5326

; SEQ ID NO 3027

; LENGTH: 336

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-11-801-901A-3027

Query Match	6.1%; Score 203; DB 3; Length 336;
Best Local Similarity	26.4%; Fred. No. 6.1e-09;
Matches	94; Conservative 63; Mismatches 139; Indels 60; Gaps 20;
Qy	64 LSNIN-GIMKPGLNAILGPTGGGKSSLVDLAARKDPSGLSGDVILINGAP---RPANFK 118 : : : : : :
Db	17 IDNLNLDDIHEGEFFTFLGPSGCKSTTLRALVGFLDPS--SGSIEVNGTDVTLEPE--K 72
Qy	119 CNSGYVVQDDVMGTLTVRENLFQSAALRATTMTNHEKNERINRVIQELGLDKVADSKV 178 : : : :: : :: :: : :
Db	73 RGIGIVFQSAYALFPMTFDNIAFGLKVKVAPDVIAK--VSABAAKI--KISDQQL 126
Qy	179 GTQFIRGVSSGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSKQ-GRT 237 : : : :: : : : : : :
Db	127 -QRNVSELSGGQQQRVALARALVLEPKILCLDEPLSNLDAKLRVDLRKELKRLQKELGIT 185
Qy	238 IIIFSIHQPRYSIFKLFDSLTLASGR-MFHGPAQEALGYFESAGYHCEAYNNP----A 291 : : : : : : : :
Db	186 TLYVTHDQE-----EATL--SDRIAVFNN-----GYIEQVGTPVEIYHNSQTEFVC 230
Qy	292 DFFLDI-INGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELH 350 : : : : :
Db	231 DFIGDINVLTDETV---HEVLLKNTSVFLEDKKGYIRLEKV-----RFNRETEQDF- 278
Qy	351 QLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLG-NPQASIAQIIVTVVL 405 : : : : : : : :
Db	279 ILKG-----TII-DVEFSGVTIHYTICKVSESQILNVTIDSQAAIRSGESVEL 326

RESULT 15

US-11-524-363-2846

; Sequence 2846, Application US/11524363

; Publication No. US20080194004A1

; GENERAL INFORMATION:

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-032

; CURRENT APPLICATION NUMBER: US/11/524,363

; CURRENT FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 2846
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-2846

Query Match 6.0%; Score 201.5; DB 3; Length 215;
Best Local Similarity 32.4%; Pred. No. 4.3e-09;
Matches 70; Conservative 33; Mismatches 76; Indels 37; Gaps 11;

Qy	36 VLSFHNCYRVKLKGFLPCRKVEI	LSNINGIMKPG-LNAILGPTGGGKSSL	DVLA 94	
	::: : : : : ::			
Db	4 IITLKNI--ELKLKK---TC-----	VFQNLNFSC	KQGEIIGITGANGSGKSVLFKLIA 51	
Qy	95 ARKDPSGLSGDV	LING---APR---PANFKCN	GYVVQDDVMGTLTVRENLQFSAA	RLR 148
	: :::: : : : : ::			
Db	52 GLYSPS--YGEV	LINGENIVPERKIPANL---GALIEEPGF	FINYYSGFKNLQYL	ASIRG 105
Qy	149 ATTMTNHEKNERINRV	IQELGLDKVADSKVGTQFIRGVSGGERKRT	SIGMELITDPSILF 208	
	: : : : : : :			
Db	106 VV-----GNQEINDTLKIVGLYEQKDQKVKT-----	YSLGMRKKLGIAQAIMENPSILL 154		
Qy	209 LDEPTTG	LD-SSTANAVLLLKRMSKQGR	TIIIFSIH 243	
	: :			
Db	155 LDEPMNALDKSSVENMRTLF	RKLSS	SEKGTTIASH 190	

Search completed: September 18, 2008, 22:15:28

Job time : 14 secs



SCORE 3.0